Table Sort Order	Field Sort Order	Table Name	Field Name	Field Description	Data Type	Primary Key?	Foreign Key	Required?	Format
1	1	Location	Location	User-defined identifier for a station or location where a sample is collected or monitoring results are measured. Must be unique.	Text (30)	Yes		Yes	Free Text
1	2	Location	LocationDescription	Description of the location where where a sample is collected or monitoring results are measured.	Text (100)				Free Text
1	3	Location	Latitude	Latitude in DECIMAL DEGREES that is associated with a Location.	Numeric			Yes	Decimal Degrees
1	4	Location	Longitude	Longitude in DECIMAL DEGREES that is associated with a Location.	Numeric			Yes	Decimal Degrees
1	5	Location	Altitude	Altitude in FT ABOVE SEA LEVEL that is associated with a Location.	Numeric				####.##
1	6	Location	Datum	Horizontal control network that was used to obtain the latitude and longitude coordinates. MUST ALWAYS BE NAD83.	Text (10)			Yes	Valid Values
1	7	Location	LocationComment	General comments related to this Location.	Text (250)				Free Text
1	8	Location	LocationZone	The Agency or Organization collecting samples or other data that are associated with this Location.					Valid Values
2	1	Instruments	InstrumentID	User-defined identifier for a piece of equipment that is used to collect a sample or monitoring data. Must be unique.	Text (50)	Yes		Yes	Free Text
2	2	Instruments	Instrument_Type	Type of instrument used to collect a sample or monitoring data.	Text (50)			Yes	Valid Values
2	3	Instruments	Instrument_Manufacturer	Manufacturer of instrument used to collect a sample or monitoring data.	Text (50)			Yes	Free Text
2	4	Instruments	Instrument_Model	Model of instrument used to collect a sample or monitoring data.	Text (50)			Yes	Free Text
2	5	Instruments	Instrument_SN	Serial Number of of instrument used to collect a sample or monitoring data.	Text (50)				Free Text
2	9	Instruments	Instrument_Remark	Remarks associated with the instrument used to collect a sample or monitoring data.	Memo				Free Text
4	1	Samples	Location	User-defined identifier for a station or location where a sample is collected or monitoring results are measured. Must exist in the Location table.	Text (30)		Yes	Yes	Free Text
4	2	Samples	InstrumentID	User-defined identifier for a piece of equipment that is used to collect a sample or monitoring data. Must exist in instruments table.	Text (50)		Yes	Yes	Free Text
4	3	Samples	Samp_No	User defined identifier for a sample that is collected. Must be unique.	Text (25)	Yes		Yes	Free Text
4	4	Samples	SampleType	The type of sample that is collected.	Text (30)			Yes	Valid Values
4	5	Samples	SampleDate	Date when a sample is collected.	DateTime			Yes	MM/DD/YYYY
4	6	Samples	SampleTime	Time when a sample is collected.	DateTime				hh:mm
4	7	Samples	Matrix	Medium that is sampled.	Text (40)			Yes	Valid Values
4	8	Samples	LinkSampleNo	Samp_No that this sample should be associated with (for example, a Field Split or a Duplicate Sample).	Text (25)				Free Text
4	9	Samples	Sampler	Name of the individual or group that collected the sample.	Text (30)				Free Text
4	10	Samples	Remarks	Description of any issues related to the sample or monitoring result that would affect the data interpatation.	Memo				Free Text
4	11	Samples	SampleMedia	Material used to collect an air sample. Type of filter such as manufacturer	Text (30)			Yes	Valid Values
4	12	Samples	Volume	Volume of sample that was collected.	Numeric			Yes	####.####
4	13	Samples	Volume_Units	Units associated with the volume of sample that was collected.	Text (20)			Yes	Valid Values
4	14	Samples	SamplerID	Identifier for a pump of other pice of equipment used to collect an air sample.	Text (50)				Free Text
4	15	Samples	Start_Date	Date that the collection of an air sample began.	DateTime			Yes	MM/DD/YYYY
4	16	Samples	Start_Time	Time that the collection of an air sample began.	DateTime			Yes	hh:mm
4	17	Samples	Stop_Date	Date that the collection of an air sample finished.	DateTime			Yes	MM/DD/YYYY
4	18	Samples	Stop_Time	Time that the collection of an air sample finished	DateTime			Yes	hh:mm
4	19	Samples	Start_Count	Beginning counter reading when the collection of an air sample began.	Numeric				####.###
4	20	Samples	Stop_Count	Final counter reading when the collection of an air sample finished.	Numeric				####.###
4	21	Samples	Total_Time	Total time that was involved to collect a sample.	Numeric			Yes	####.###
4	22	Samples	Start_Pressure	Pressure that was measured when the collection of an air sample began.	Numeric				####.###
4	23	Samples	Stop_Pressure	Pressure that was measured when the collection of an air sample finished.	Numeric				####.###
4	24	Samples	Pump_Fault	Indication whether or not a pump failed during the collection of a sample.	Text (1)				Valid Values
4	25	Samples	Avg_Flow	Average flow rate while the air sample was being collected.	Numeric			Yes	####.###
4	26	Samples	Flow_Units	Units associated with the average flow rate.	Text (20)			Yes	Valid Values
5	1	LabResults	Samp_No	User defined identifier for a sample that is collected. Must exist in Samples table.	Text (25)		Yes	Yes	Free Text
5	2	LabResults	Matrix_ID	Matrix, as reported by the Lab, that was analyzed.	Text (20)			Yes	Free Text
5	3	LabResults	Date_Analyzed	Date that the analysis was performed by the Lab.	DateTime			Yes	MM/DD/YYYY
5	4	LabResults	Lab_Name	Name of the laboratory that performed the analysis.	Text (50)			Yes	Free Text
5	5	LabResults	Lab_Batch_No	Batch Number for a set of analyses as reported by the lab.	Text (30)				Free Text
5	6	LabResults	Lab_Samp_No	Internal sample identifier used by the lab.	Text (25)			Yes	Free Text
5	7	LabResults	Analysis	General analysis (i.e gamma spectrometry) that was performed by the lab.	Text (100)			No	Valid Values
5	8	LabResults	Analytical_Method	Analytical Method that was performed by the lab.	Text (100)			Yes	Valid Values
5	9	LabResults	Cas_no	Chemical Abstract Number (CAS) for the analyte that was measured.	Text (50)			Yes	Valid Values
5	10	LabResults	Analyte	Analyte or name of the paramater (i.e. Cs-137.) that was measured.	Text (60)			Yes	Valid Values
5	11	LabResults	Result	Result that was measured by the lab for an analyte.	Numeric			Yes	####.####
5	12	LabResults	Result_Units	Unit of measurement associated with a Result.	Text (20)			Yes	Valid Values
5	13	LabResults	Lab_Result_Qualifier	Result qualifier as reported by the Lab.	Text (10)				Free Text
5	14	LabResults	Result_Qualifier	Final result qualifier/flag for a lab result. This qualifier is usually the result of a data validation.	Text (10)				Valid Values
5	15	LabResults	MDL	Minimum Detected Activity for an analysis (usually used for Method Detection Limit (MDL)).	Numeric			Yes	####.####
5	16	LabResults	MDL_Units	Unit of measurement associated with the MDA (usually used for MDL).	Text (20)			Yes	Valid Values
5	17	LabResults	Reporting_Limit	Reporting Limits for a lab result as determined by the lab.	Numeric			Yes	####.####
5	18	LabResults	Reporting_Limit_Units	Unit of measurement associated with the Reporting Limit.	Text (20)			Yes	Valid Values
3	1	Monitoring	InstrumentID	User-defined identifier for a piece of equipment that is used to collect a sample or monitoring data. Must be unique.	Text (50)		Yes	Yes	Free Text
3	2	Monitoring	Location	User-defined identifier for a station or location where a sample is collected or monitoring results are measured. Must exist in the Location table.	Text (30)		Yes	Yes	Free Text

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3	3	Monitoring	Sub_Location	User defined identifier for a sample that is collected that these monitoring or calibration results should be associated with. Must exist in the Samples table.	Text (25)		Yes		Free Text
3	4	Monitoring	Mon_Date	Date that the monitoring or calibration results were collected.	DateTime			Yes	MM/DD/YYYY
3	5	Monitoring	Mon_Time	Time that the monitoring or calibration results were collected.	DateTime				hh:mm
3	6	Monitoring	Mon_Operator	Name of the Team or Indivual who collected the monitoring measurement.	Text (50)				Free Text
3	7	Monitoring	Mon_Parameter	Name of the analyte or parameter that is being monitored.	Text (30)			Yes	Valid Values
3	8	Monitoring	Mon_Measurement	The result that was obtained during the monitoring activity.	Numeric				####.####
3	9	Monitoring	Mon_Meas_Units	Units associated with the result that was obtained during the monitoring activity.	Text (40)				Valid Values
3	10	Monitoring	Mon_Remark	Remarks associated with the monitoring measurement.	Text (255)				Free Text

Scribe Field Name	Valid Value	
Analysis	GammaSpec	
Analysis	Radiation	
Analysis	SVOC	
Analysis	TOTAL ACTIVITY	
Analyte	Americium-241	
Analyte	Gross Alpha	
Analyte	Gross Beta	
Analyte	Plutonium-239/240	
Analyte	Strontium-90	
Analyte	Ac-228	Actinium 228
Analyte	Be-7	Beryllium 7
Analyte	Bi-212	Bismuth 212
Analyte	Bi-214	Bismusth 214
Analyte	Co-60	Cobalt 60
Analyte	Cs-134	Cesium 134
Analyte	Cs-137	Cesium 137
Analyte	I-131	Iodine 131
Analyte	K-40	Potassium 40
Analyte	Na-22	Sodium 22
Analyte	Pa-234M	Protactinium 234M
Analyte	Pb-212	Lead 212
Analyte	Pb-214	Lead 214
Analyte	Th-234	Thorium 234
Analyte	Tl-208	Thallium 208
Analyte	U-235	Uranium 235
Analyte	U-238	Uranium 238
Analyte	U-234	Uranium 234
Analyte	Am-243	Americium 243
Analyte	Pu-238	Plutonium 238
Analytical_Method	IO-2	
Analytical_Method	IO-3	
Analytical_Method	NIOSH7400	
Analytical_Method	TO-13A	
Analytical_Method	TO-15	
Cas_no	10045-97-3	
Cas_no	10098-97-2	

Cas_no	14596-10-2	
Cas_no	GrossA	
Cas_no	GrossB	
Cas_no	Pu239-240	
Datum	NAD83	
Flow_Units	L/min	
Instrument_Type	Air Sampler	
Instrument_Type	H810	
Instrument_Type	MicorR Meter	
Instrument_Type	pDR	
LocationZone	DOE	
LocationZone	EPA	
LocationZone	NMED	
LocationZone	USFS	
Matrix	Air	
Matrix	Blank	
MDL_Units	pCi/g	pico-Curie/gram
MDL_Units	pCi/kg	pico-Curie/kilogram
MDL_Units	pCi/L	pico-Curie/Liter
MDL_Units	pCi/m3	pico-Curie/cubic meter
Pump Fault	No	
Pump Fault	Yes	
Reporting_Limit_Units	pCi/g	pico-Curie/gram
Reporting_Limit_Units	pCi/kg	pico-Curie/kilogram
Reporting_Limit_Units	pCi/L	pico-Curie/Liter
Reporting_Limit_Units	pCi/m3	pico-Curie/cubic meter
Result_Qualifier	J	
Result_Qualifier	U	
Result_Qualifier	UJ	
Result_Units	pCi/g	pico-Curie/gram
Result_Units	pCi/kg	pico-Curie/kilogram
Result_Units	pCi/L	pico-Curie/Liter
Result_Units	pCi/m3	pico-Curie/cubic meter
SampleMedia	Glass Fiber Filter	
SampleMedia	PQ200 2.5	
SampleMedia	PUF/GLASS	
SampleMedia	Summa Canister	

SampleMedia	Tedlar Bag	
SampleType	Ambient Blank	
SampleType	Equipment Blank	
SampleType	Field Blank	
SampleType	Field Duplicate	
SampleType	Field Sample	
SampleType	Filter Blank	
SampleType	Laboratory Duplicate	
SampleType	Laboratory Replicate	
SampleType	Lot Blank	
SampleType	Method Blank	
SampleType	Preservative Blank	
SampleType	Trip Blank	
Volume_Units	g	
Volume_Units	m3	
Volume_Units	mL	
Mon_Parameter	Gross Alpha	
Mon_Parameter	Gross Beta	
Mon_Parameter	Ac-228	Actinium 228
Mon_Parameter	Be-7	Beryllium 7
Mon_Parameter	Bi-212	Bismuth 212
Mon_Parameter	Bi-214	Bismusth 214
Mon_Parameter	Co-60	Cobalt 60
Mon_Parameter	Cs-134	Cesium 134
Mon_Parameter	Cs-137	Cesium 137
Mon_Parameter	I-131	Iodine 131
Mon_Parameter	K-40	Potassium 40
Mon_Parameter	Na-22	Sodium 22
Mon_Parameter	Pa-234M	Protactinium 234M
Mon_Parameter	Pb-212	Lead 212
Mon_Parameter	Pb-214	Lead 214
Mon_Parameter	Th-234	Thorium 234
Mon_Parameter	Tl-208	Thallium 208
Mon_Parameter	U-235	Uranium 235
Mon_Parameter	U-238	Uranium 238
Mon_Parameter	U-234	Uranium 234
Mon_Parameter	Am-243	Americium 243

Mon_Parameter	Pu-238	Plutonium 238
Mon_Meas_Units	pCi/g	pico-Curie/gram
Mon_Meas_Units	pCi/kg	pico-Curie/kilogram
Mon_Meas_Units	pCi/L	pico-Curie/Liter
Mon_Meas_Units	pCi/m3	pico-Curie/cubic meter